



IPW #

PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031  
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/728,596	
	Filing Date	12-05-2003	
	First Named Inventor	Toshihar ENMEI	
	Art Unit	2673	
	Examiner Name	Vijay SHANKAR	
Total Number of Pages in This Submission	260	Attorney Docket Number	PAT-1-US-DIV3

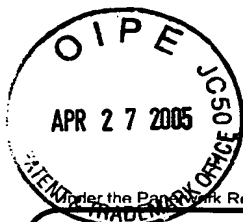
ENCLOSURES (Check all that apply)		
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<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Adachi International Patent Firm		
Signature			
Printed name	Daryl R. Wright		
Date	4-22-2005	Reg. No.	53,794

CERTIFICATE OF TRANSMISSION/MAILING			
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Signature			
Typed or printed name		Date	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0032

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 180.00**Complete if Known**

Application Number	10/728,596
Filing Date	12-05-2003
First Named Inventor	Toshihar ENMEI
Examiner Name	Vijay SHANKAR
Art Unit	2673
Attorney Docket No.	PAT-1-US-DIV3

**METHOD OF PAYMENT** (check all that apply)☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_☐ Deposit Account Deposit Account Number: \_\_\_\_\_ Deposit Account Name: \_\_\_\_\_

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, **except for the filing fee**  
☐ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP = _____ x _____ = _____			

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
- 3 or HP = _____ x _____ = _____			

HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 = _____ / 50 = _____ (round up to a whole number) x _____ = _____				

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): IDS Submission after First Office Action

**Fees Paid (\$)**

180.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent) 53,794	Telephone +81-52-203-1001
Name (Print/Type)	Daryl R. Wright		Date 04-01-2005

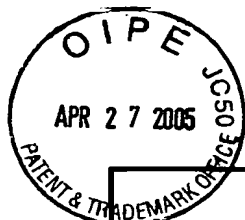
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04/28/2005 HLE333 00000005 10728596

01 FC:1806

180.00 OP



## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

### Complete If Known

Application Number	10/728,596
Filing Date	12/5/2003
First Named Inventor	Toshihar ENMEI
Art Unit	2673
Examiner Name	Vijay SHANKAR
Attorney Docket Number	PAT-1-US-DIV3

### U.S. Patent Documents

Examiner Initials	Cite No.	Document Number	Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines of Relevant Passages or Figures
		Number-Kind Code			
		US-			
		US-			

### Foreign Patent Documents

Examiner Initials	Cite No.	Foreign Patent Document	Publication MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Lines of Relevant Passages or Figures	T
		Country Code-No.-Kind Code				X
		JP H5-103058	04-23-1993	Omori TADASHI, et al.	English Abstract	X
		JP H5-63842	03-12-1993	Kadowaki SHUICHI	English Abstract	X
		JP H5-37690	02-12-1993	Matsueda KAZUTAKA	English Abstract	X
		JP H4-273639	09-29-1992	Ina YOSHIYUKI	English Abstract	X
		JP H4-259156	09-14-1992	Yamamoto TATSUYA	English Abstract	X
		JP H4-245763	09-02-1992	Hosokawa YUKO	English Abstract	X
		JP H4-156051	05-28-1992	Haniyu HIROYUKI	English Abstract	X
		JP H4-127644	04-28-1992	Hayashi HIDEO	English Abstract	X
		JP H4-51281	02-19-1992	Hashimoto MASAICHI	English Abstract	X
		JP H3-235116	10-21-1991	Inoue TADASHI, et al.	English Abstract	X
		JP H3-184431	08-12-1991	Tamura YOSHIHARU	English Abstract	X
		JP H3-135147	06-10-1991	Iwami NAOKO, et al.	English Abstract	X
		JP H3-28914	02-07-1991	Akashi KAZUO, et al.	English Abstract	X
		JP H3-13163	01-22-1991	Iida SEIJI	English Abstract	X
		JP H2-75982	03-15-1990	Tamura YOSHIHARU	English Abstract	X
		JP H2-73865	06-06-1990	Yoshisuki TASHIRO	Concise Statement	
		JP H1-284168	11-15-1989	Miura SHIGEO	English Abstract	X
		JP S60-203065	10-14-1985	Tateyama OSAMU	English Abstract	X

### Non Patent Literature Documents

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
			X
		SUICHI SATO, et al., Appeal Decision JP 07-309278, 01-25-2005, All pages, Japanese Patent Office, Tokyo, Japan	X
		KATSUHIRO KOBAYASHI, Notice of Rejection JP 2003-336052, 08-03-2004, All pages, Japanese Patent Office, Tokyo, Japan	X
		KATSUHIRO KOBAYASHI, Notice of Rejection JP 2003-337970, 08-03-2004, All pages, Japanese Patent Office, Tokyo, Japan	X
		KATSUHIRO KOBAYASHI, Notice of Rejection JP 2003-337971, 08-03-2004, All pages, Japanese Patent Office, Tokyo, Japan	X
		RYOHEI OTSUKA, Notice of Rejection JP 10-180965, 03-16-2004, All pages, Japanese Patent Office, Tokyo, Japan	X

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

**Complete If Known**

Application Number	10/728,596
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First Named Inventor	Toshihar ENMEI
Art Unit	2673
Examiner Name	Vijay SHANKAR
Attorney Docket Number	PAT-1-US-DIV3

**Non Patent Literature Documents**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item (book, magazine, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T X
		RYOHEI OTSUKA, Notice of Rejection JP 7-309278, 03-02-2004, All pages, Japanese Patent Office, Tokyo, Japan	X
		SUICHI SATO, Notice of Reasons for Revocation JP 2003-72820, 02-20-2004, All pages, Japanese Patent Office, Tokyo, Japan	X

Examiner Signature	Date Considered
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